

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061119\
 Data File : BF114944.D
 Acq On : 11 Jun 2019 14:18
 Operator : HP/JU
 Sample : K3163-05 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 11 14:46:56 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 10 16:44:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	196635	20.00	ng	0.00
21) Naphthalene-d8	7.94	136	775230	20.00	ng	0.00
39) Acenaphthene-d10	9.69	164	394995	20.00	ng	0.00
64) Phenanthrene-d10	11.16	188	762563	20.00	ng	0.00
76) Chrysene-d12	13.79	240	586520	20.00	ng	0.00
87) Perylene-d12	15.17	264	512438	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.26	112	561208	48.30	ng	-0.01
7) Phenol-d6	6.30	99	706121	50.39	ng	-0.01
23) Nitrobenzene-d5	7.22	82	407630	32.31	ng	-0.01
42) 2,4,6-Tribromophenol	10.47	330	202679	47.17	ng	-0.01
45) 2-Fluorobiphenyl	9.02	172	868739	34.91	ng	0.00
79) Terphenyl-d14	12.74	244	921422	31.24	ng	0.00

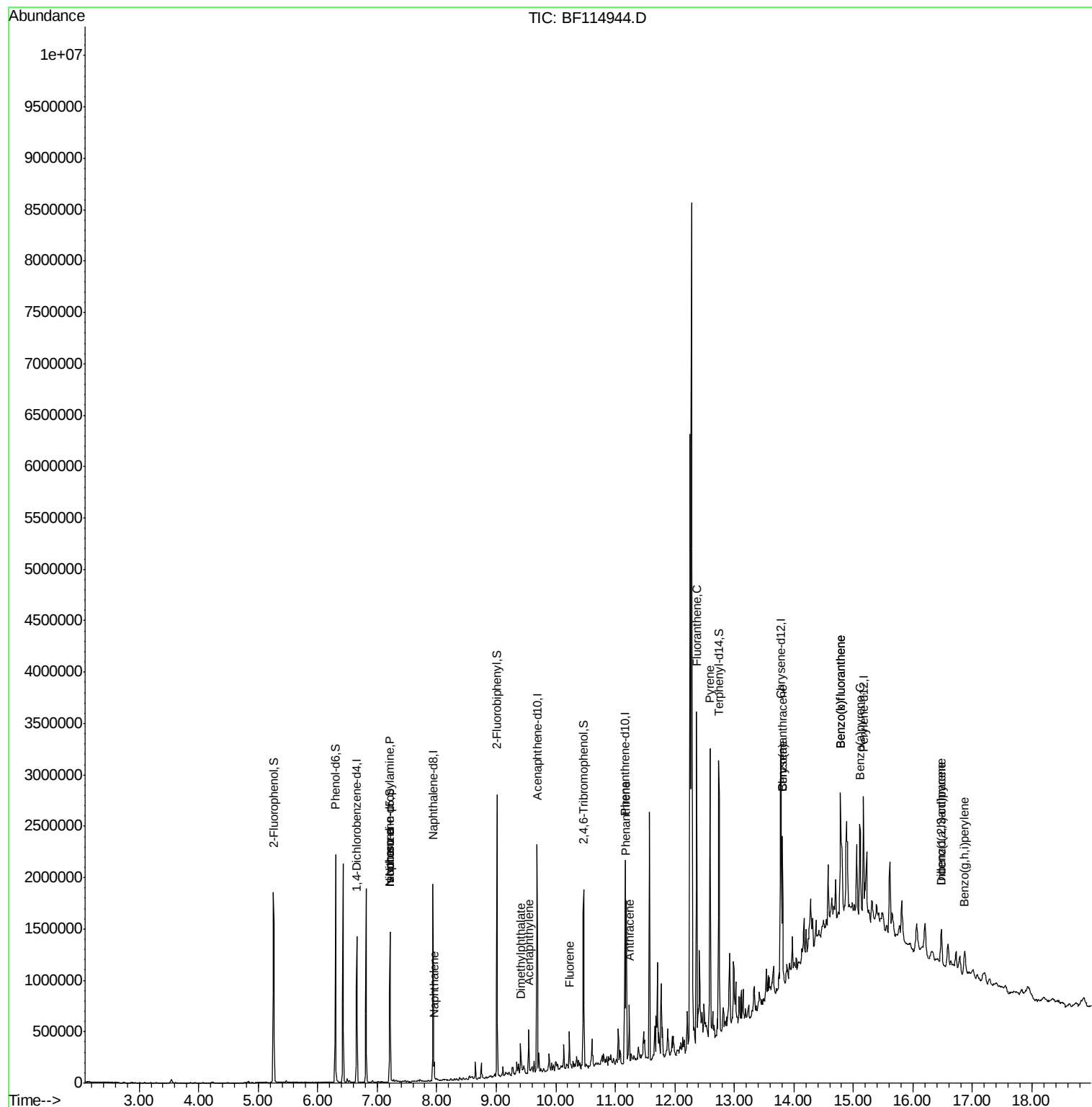
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.22	70	53031	6.051	ng	# 75
25) Isophorone	7.22	82	400087	16.193	ng	# 62
31) Naphthalene	7.96	128	74719	2.092	ng	96
49) Acenaphthylene	9.55	152	162873	4.431	ng	98
50) Dimethylphthalate	9.41	163	86300	2.907	ng	96
58) Fluorene	10.23	166	89430	3.649	ng	100
71) Phenanthrene	11.18	178	605534	16.367	ng	96
72) Anthracene	11.23	178	180072	4.795	ng	96
75) Fluoranthene	12.37	202	969511	25.335	ng	96
78) Pyrene	12.59	202	1004292	19.661	ng	97
81) Benzo(a)anthracene	13.81	228	548674	12.652	ng	96
83) Chrysene	13.81	228	548674	12.599	ng	97
86) Indeno(1,2,3-cd)pyrene	16.47	276	213013	5.203	ng	95
88) Benzo(b)fluoranthene	14.79	252	853129	25.572	ng	# 96
89) Benzo(k)fluoranthene	14.79	252	853129	29.466	ng	# 95
90) Benzo(a)pyrene	15.11	252	419260	14.469	ng	# 95
91) Dibenzo(a,h)anthracene	16.49	278	58294	2.382	ng	# 75
92) Benzo(g,h,i)perylene	16.87	276	189279	7.758	ng	96

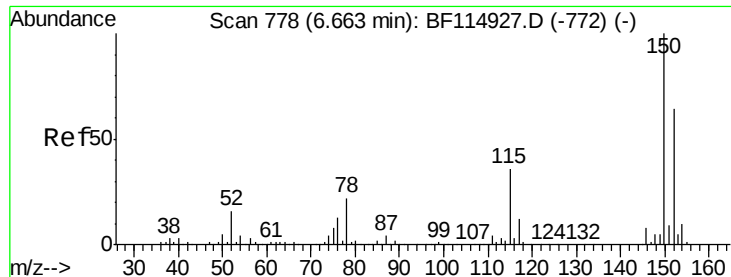
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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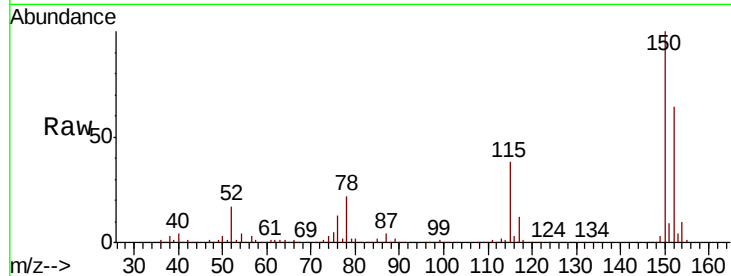


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.66 min Scan# 777
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.2	125.2	187.8
115	58.4	45.0	67.4

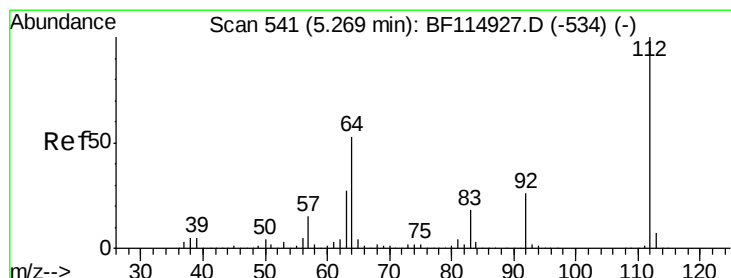
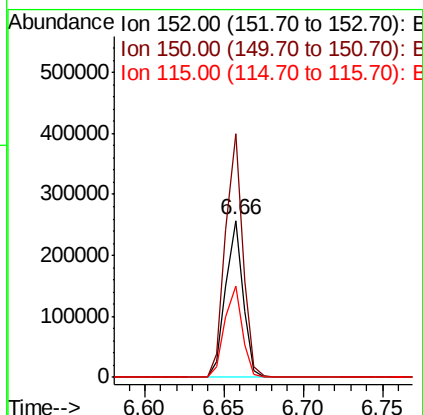
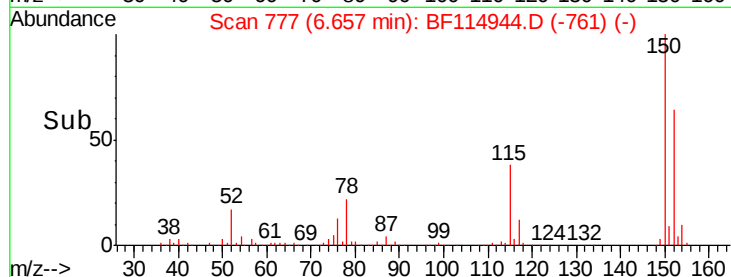


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

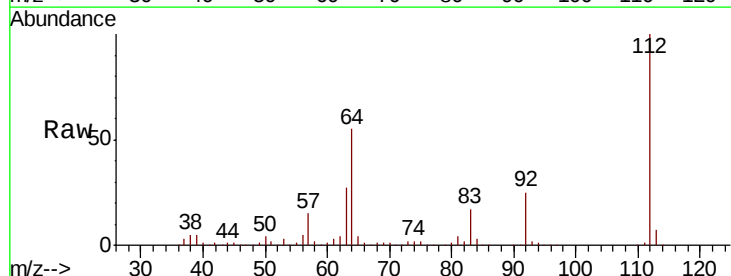
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 48.303 ng
RT: 5.26 min Scan# 539
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.5	42.1	63.1
63	26.9	21.8	32.8

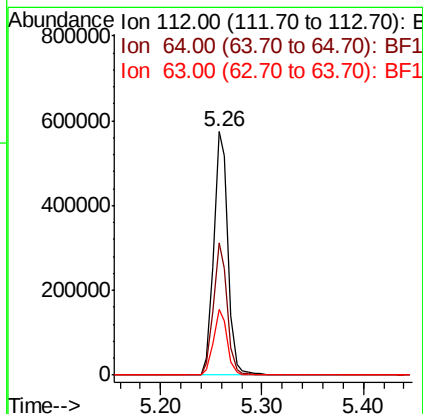
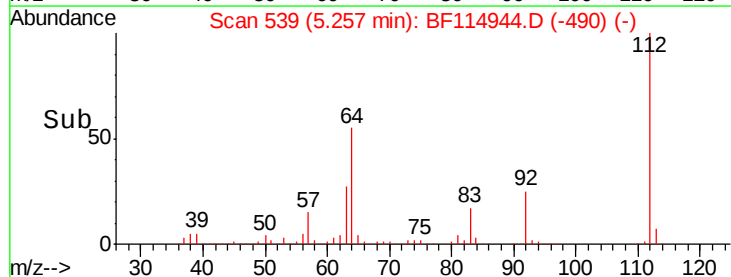


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 50.386 ng

RT: 6.30 min Scan# 716

Delta R.T. -0.01 min

Lab File: BF114944.D

Acq: 11 Jun 2019 14:18

Instrument :

BNA_F

ClientSampleId :

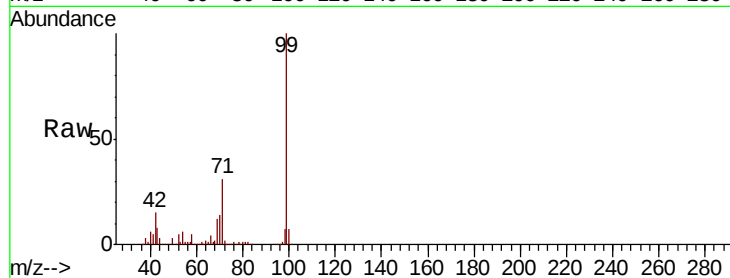
Tot Ion: 99 Resp: 706121

Ion Ratio Lower Upper

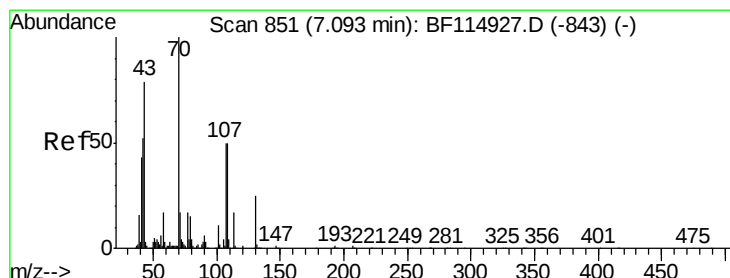
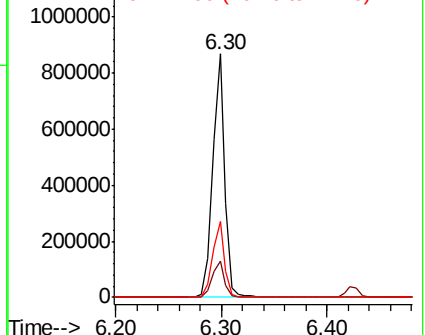
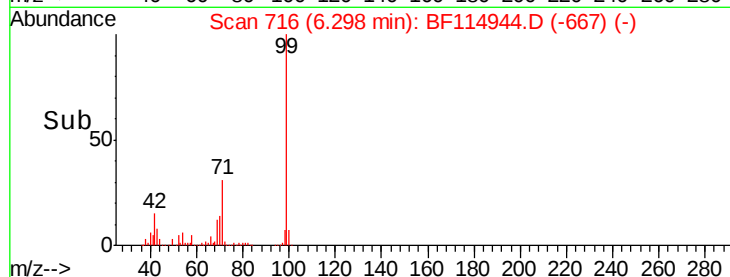
99 100

42 15.1 13.1 19.7

71 31.0 26.8 40.2



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 6.051 ng

RT: 7.22 min Scan# 872

Delta R.T. 0.12 min

Lab File: BF114944.D

Acq: 11 Jun 2019 14:18

Tgt Ion: 70 Resp: 53031

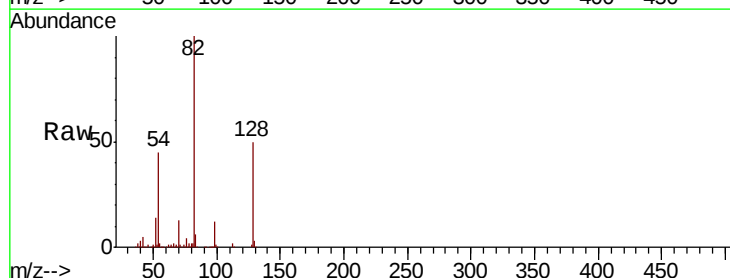
Ion Ratio Lower Upper

70 100

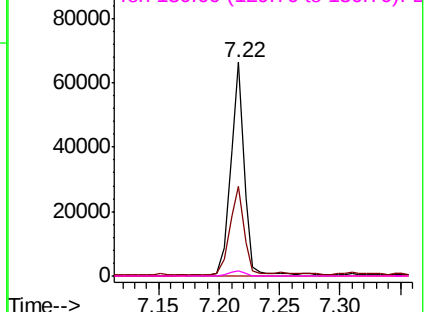
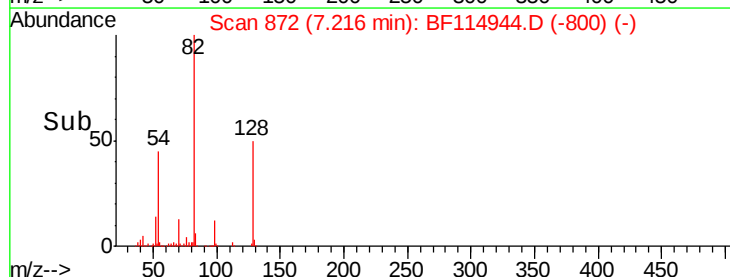
42 41.8 41.7 62.5

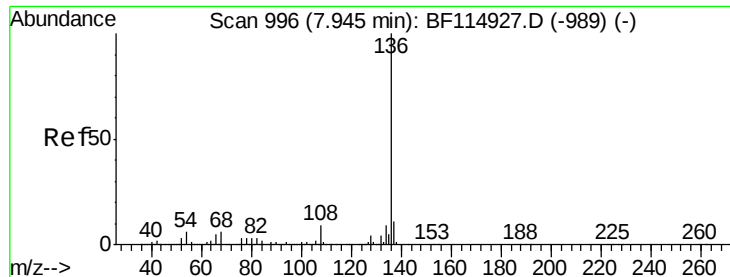
101 0.0 8.4 12.6#

130 2.1 19.9 29.9#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): BF1
Ion 130.00 (129.70 to 130.70): BF1

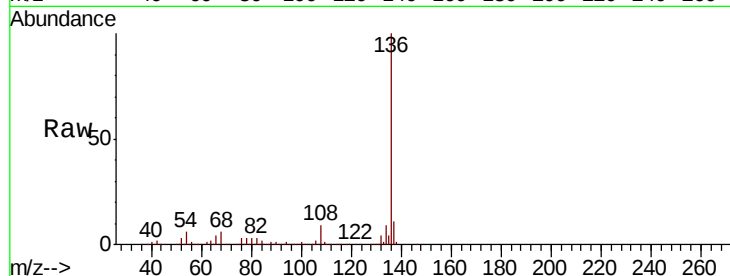




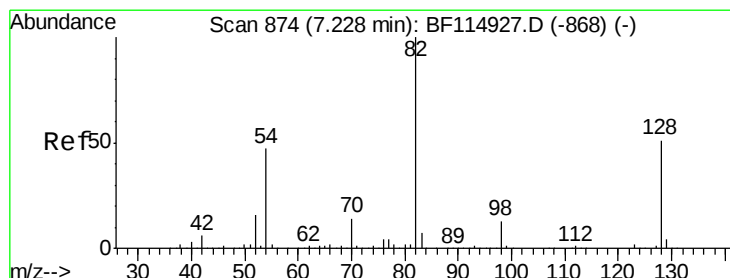
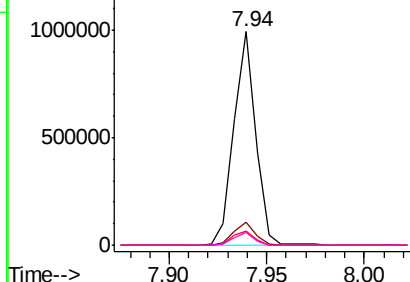
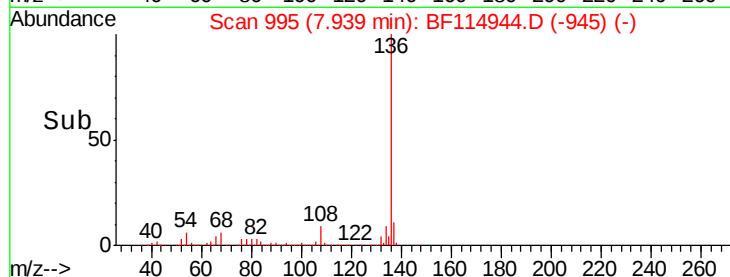
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.94 min Scan# 995
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	775230
Ion Ratio	Lower	Upper
136 100		
137 11.1	9.0	13.6
54 6.3	5.2	7.8
68 5.8	4.6	7.0

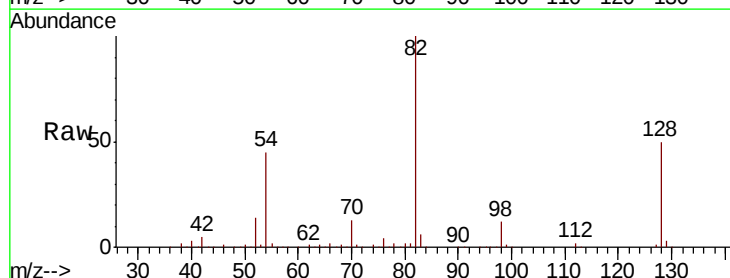


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

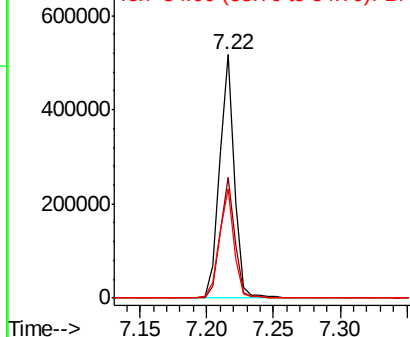
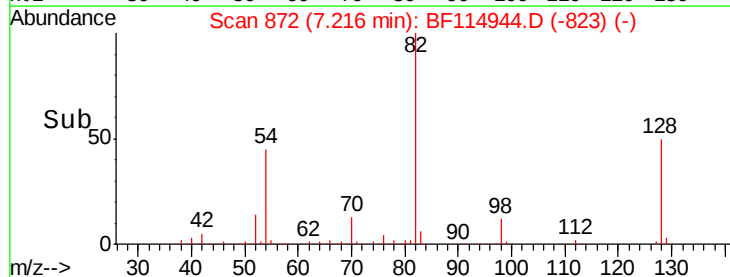


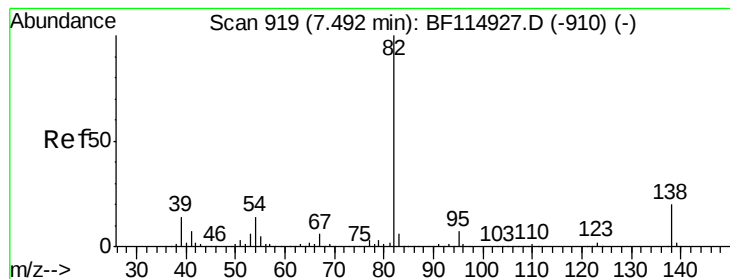
#23
Nitrobenzene-d5
Concen: 32.307 ng
RT: 7.22 min Scan# 872
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Tgt Ion: 82	Resp: 407630
Ion Ratio	Lower Upper
82 100	
128 49.8	40.9 61.3
54 44.6	37.4 56.0



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 16.193 ng

RT: 7.22 min Scan# 872

Delta R.T. -0.28 min

Lab File: BF114944.D

Acq: 11 Jun 2019 14:18

Instrument :

BNA_F

ClientSampleId :

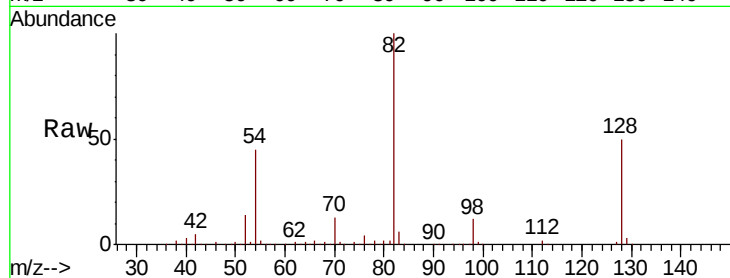
Tot Ion: 82 Resp: 400087

Ion Ratio Lower Upper

82 100

95 0.1 5.7 8.5#

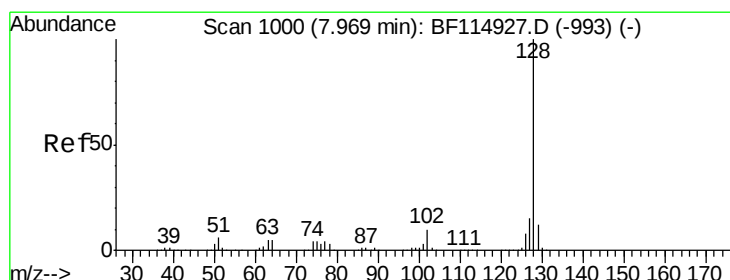
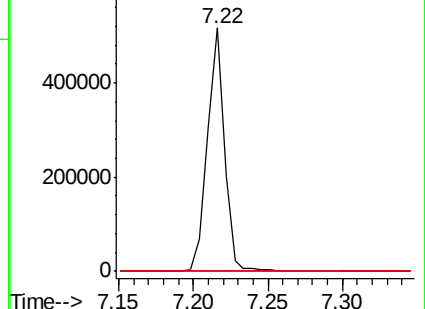
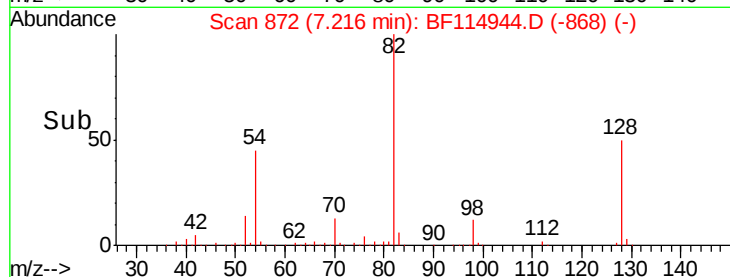
138 0.0 16.4 24.6#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#31

Naphthalene

Concen: 2.092 ng

RT: 7.96 min Scan# 998

Delta R.T. -0.01 min

Lab File: BF114944.D

Acq: 11 Jun 2019 14:18

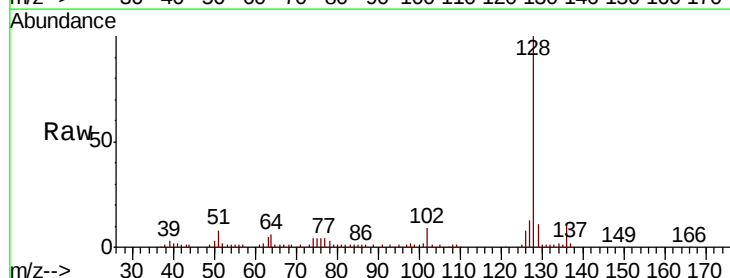
Tgt Ion: 128 Resp: 74719

Ion Ratio Lower Upper

128 100

129 11.2 9.8 14.8

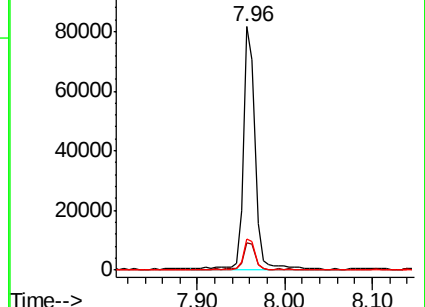
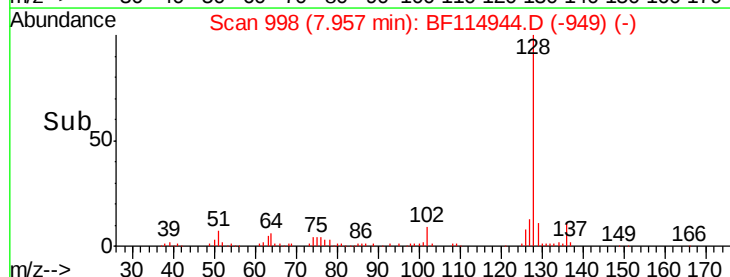
127 12.9 11.8 17.6

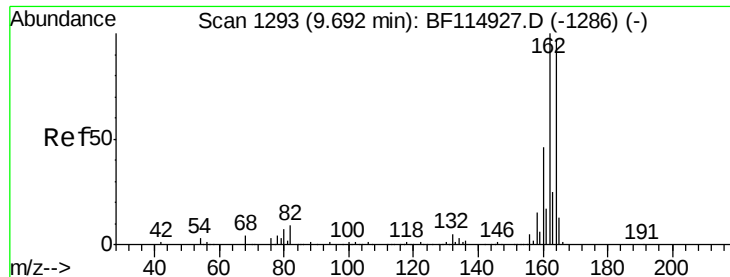


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

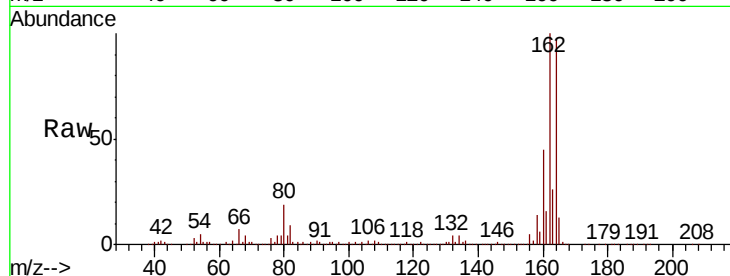




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.69 min Scan# 1292
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.8	82.4	123.6
160	46.6	37.5	56.3

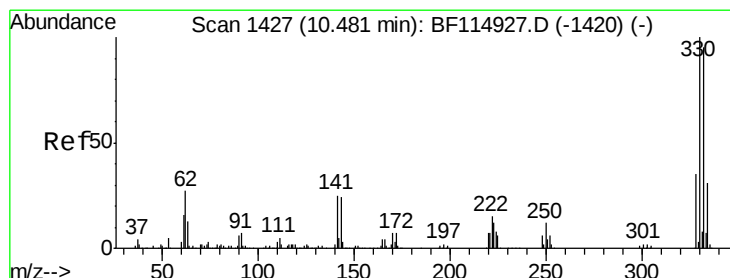
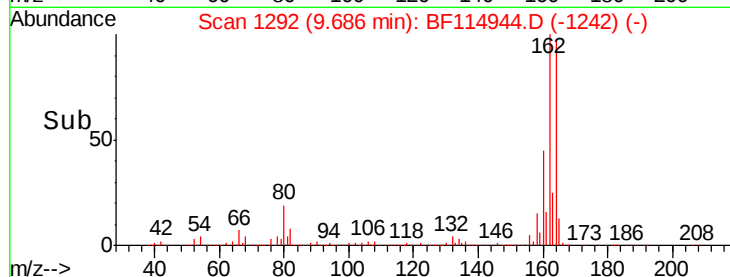
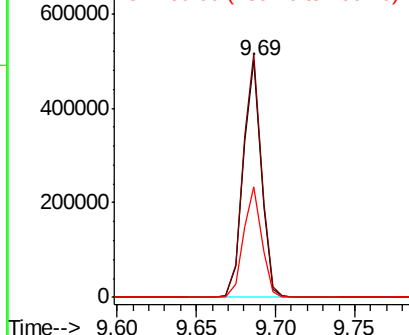


Abundance

Ion 164.00 (163.70 to 164.70): E

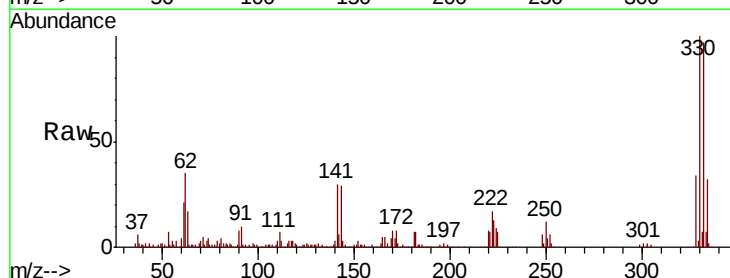
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 47.170 ng
RT: 10.47 min Scan# 1425
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.4	114.6
141	33.8	26.8	40.2

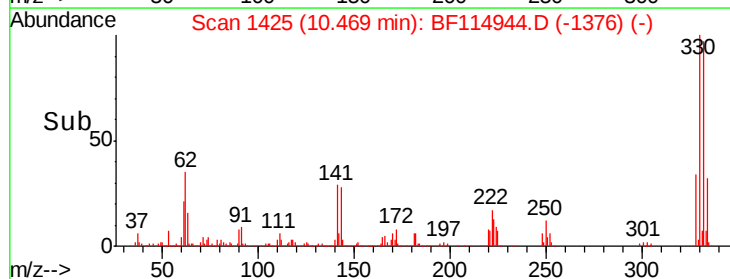
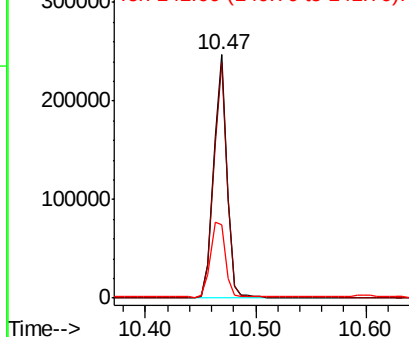


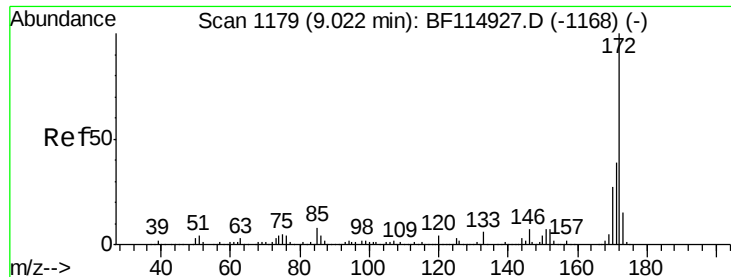
Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

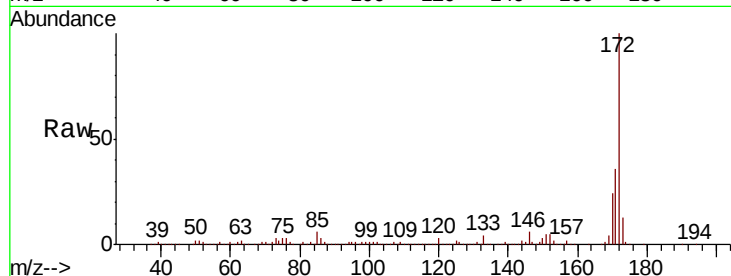




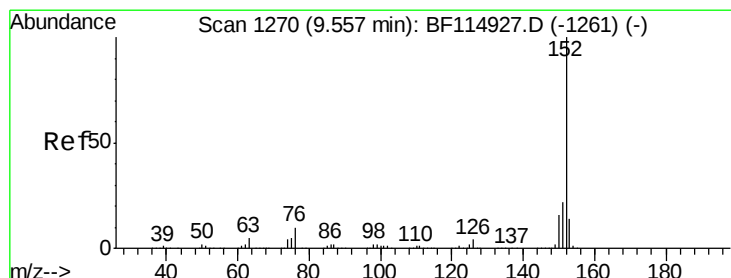
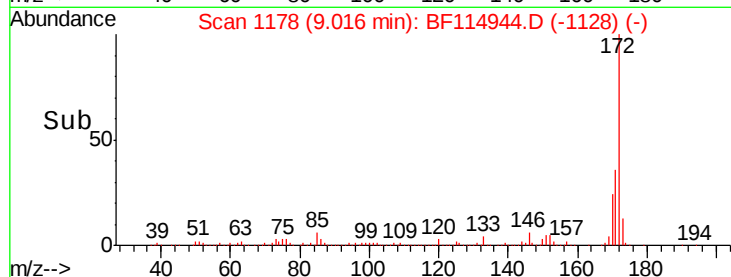
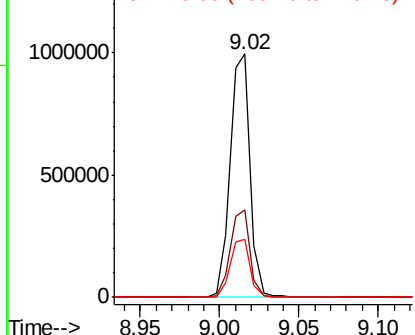
#45
2-Fluorobiphenyl
Concen: 34.905 ng
RT: 9.02 min Scan# 1178
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.9	31.3	46.9
170	23.9	21.4	32.0

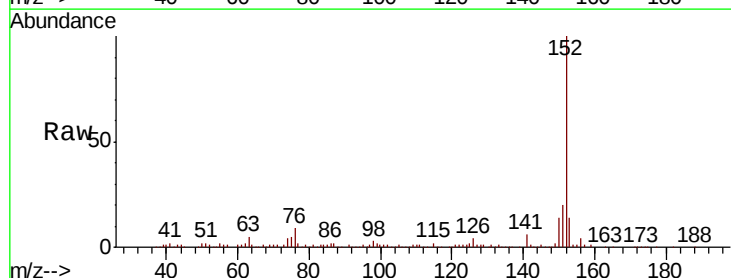


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

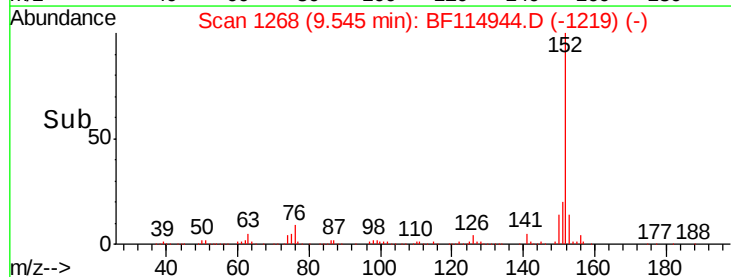
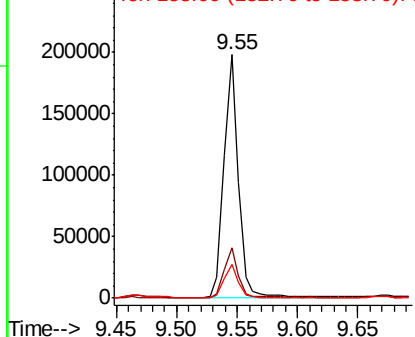


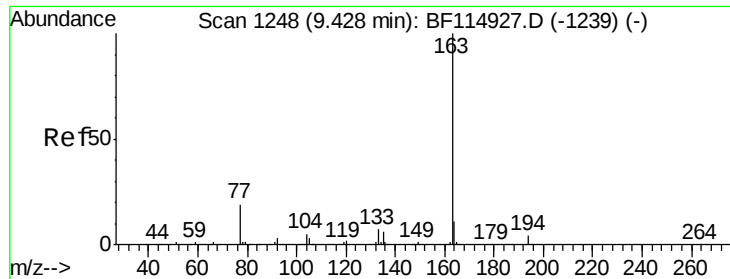
#49
Acenaphthylene
Concen: 4.431 ng
RT: 9.55 min Scan# 1268
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.6	26.4
153	13.7	11.4	17.0



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

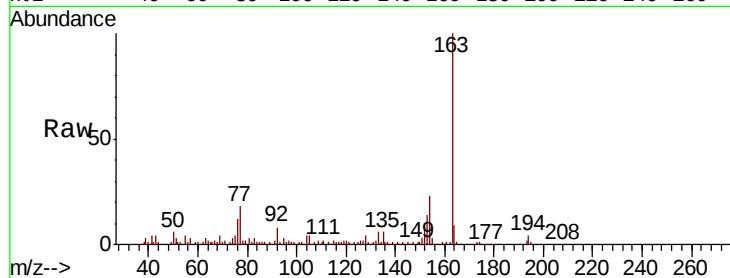




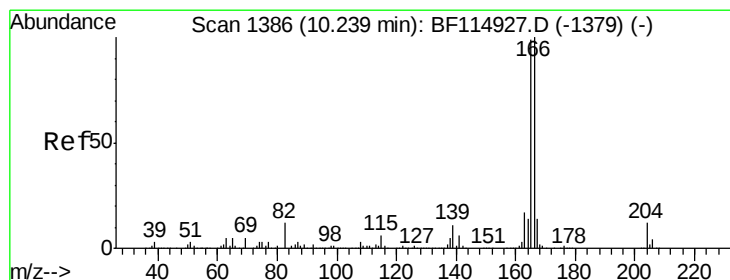
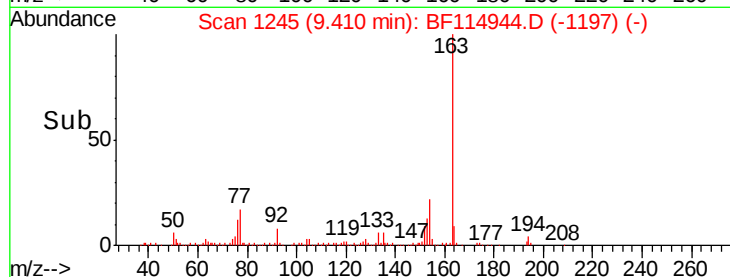
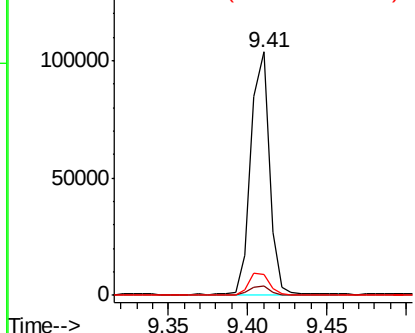
#50
Dimethylphthalate
Concen: 2.907 ng
RT: 9.41 min Scan# 1245
Delta R.T. -0.02 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Instrument :
BNA_F
ClientSampled :

Tot Ion:163 Resp: 86300
Ion Ratio Lower Upper
163 100
194 4.1 3.4 5.0
164 8.7 8.7 13.1

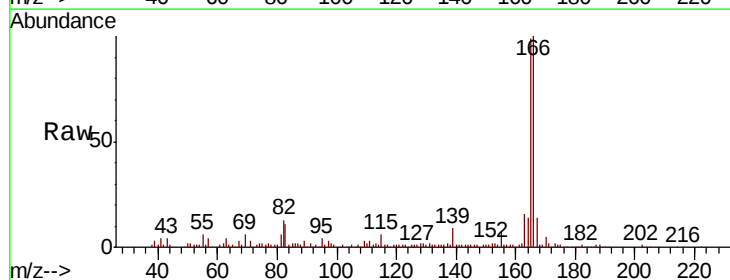


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

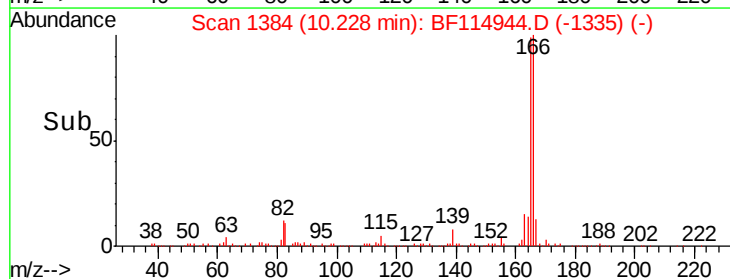
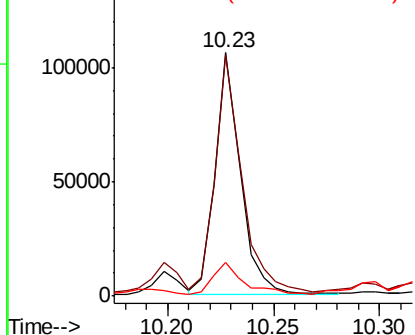


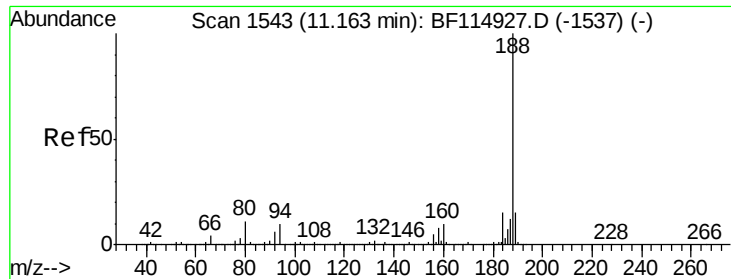
#58
Fluorene
Concen: 3.649 ng
RT: 10.23 min Scan# 1384
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Tgt Ion:166 Resp: 89430
Ion Ratio Lower Upper
166 100
165 99.1 79.2 118.8
167 14.0 11.0 16.6



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

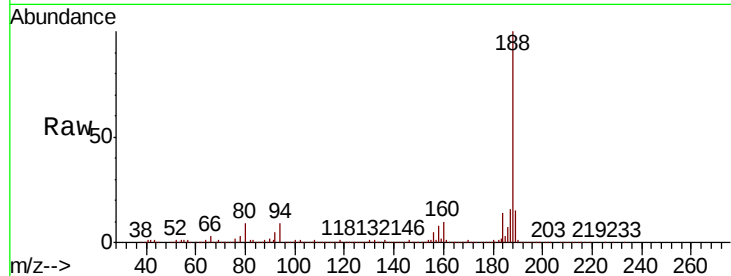




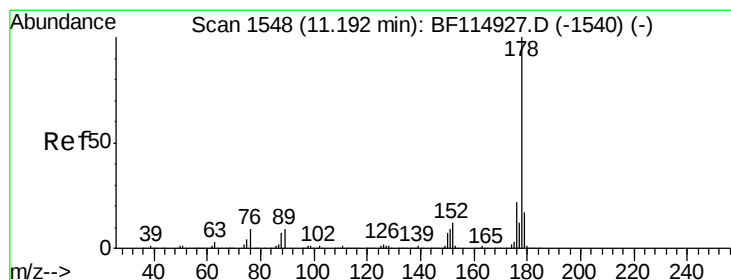
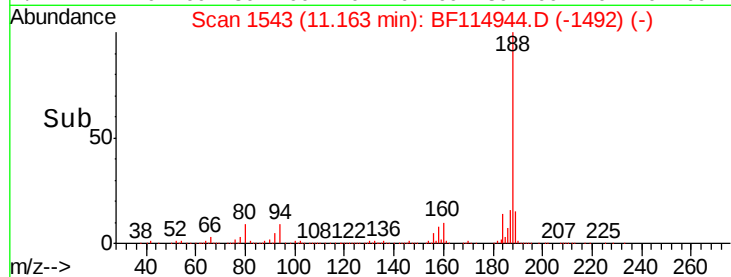
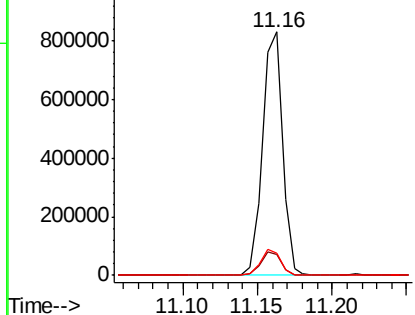
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.16 min Scan# 1543
Delta R.T. -0.00 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 762563
Ion Ratio Lower Upper
188 100
94 8.8 8.1 12.1
80 9.4 8.6 12.8

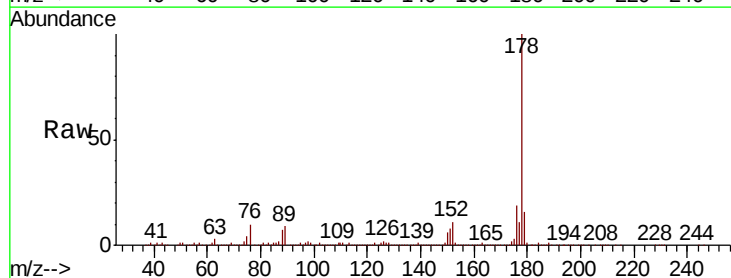


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

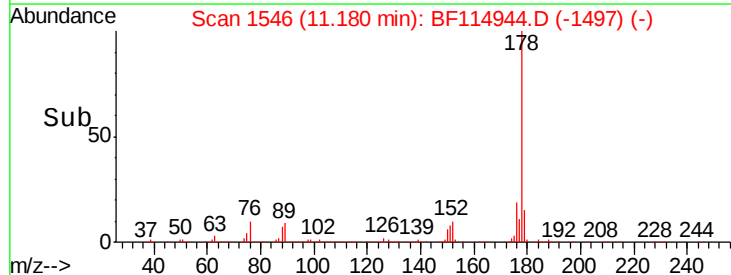
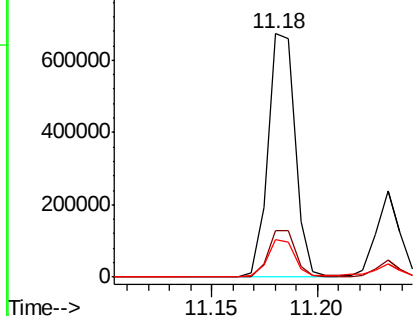


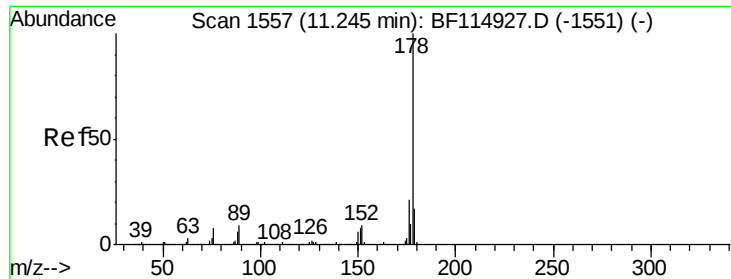
#71
Phenanthrene
Concen: 16.367 ng
RT: 11.18 min Scan# 1546
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Tgt Ion:178 Resp: 605534
Ion Ratio Lower Upper
178 100
176 19.3 17.4 26.2
179 15.5 13.6 20.4



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 4.795 ng

RT: 11.23 min Scan# 1555

Delta R.T. -0.01 min

Lab File: BF114944.D

Acq: 11 Jun 2019 14:18

Instrument :

BNA_F

ClientSampleId :

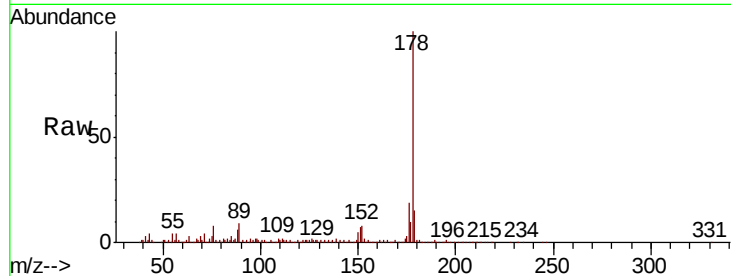
Tot Ion:178 Resp: 180072

Ion Ratio Lower Upper

178 100

176 18.9 16.6 25.0

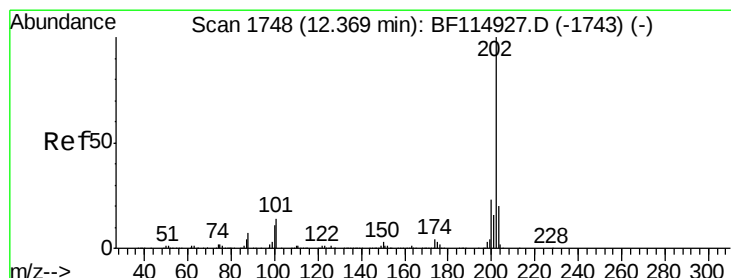
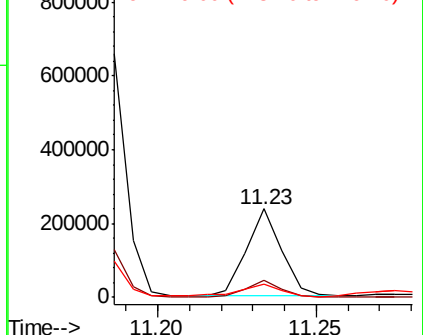
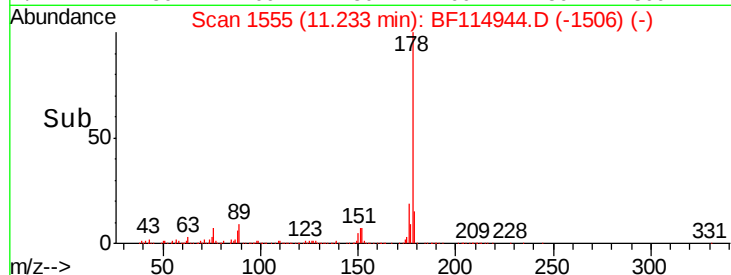
179 15.1 13.4 20.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 25.335 ng

RT: 12.37 min Scan# 1748

Delta R.T. -0.00 min

Lab File: BF114944.D

Acq: 11 Jun 2019 14:18

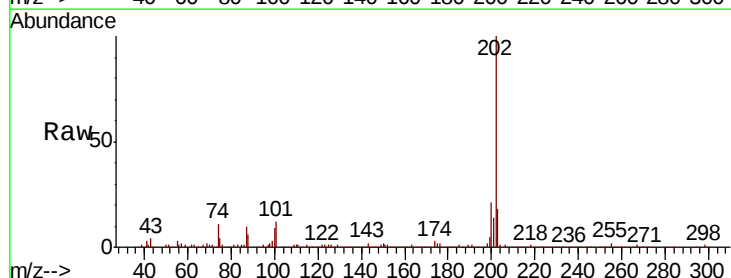
Tgt Ion:202 Resp: 969511

Ion Ratio Lower Upper

202 100

101 12.2 0.0 34.3

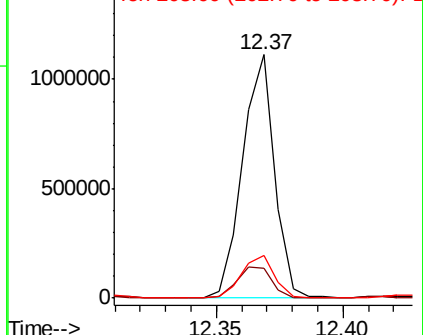
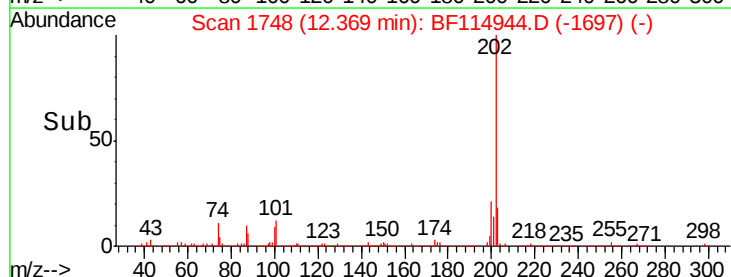
203 17.8 0.0 39.6

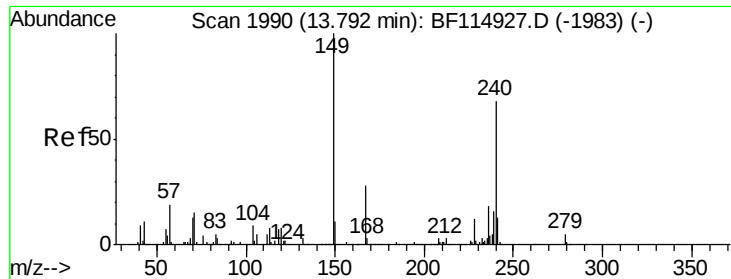


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

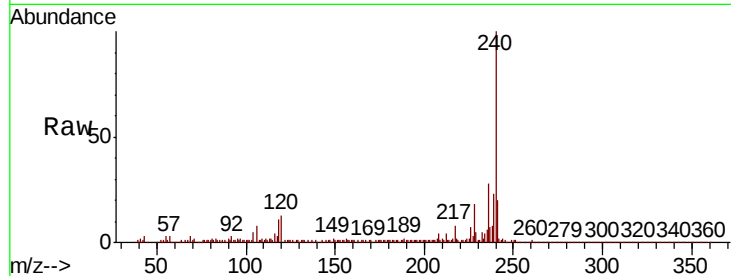




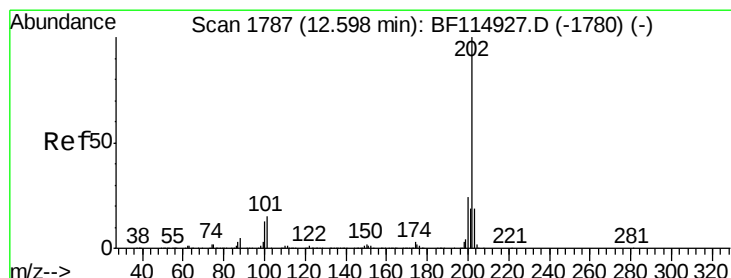
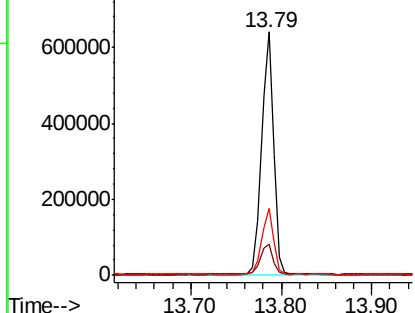
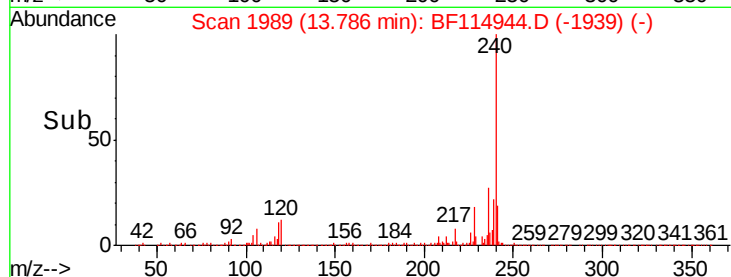
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.79 min Scan# 1989
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion:240 Resp: 586520
Ion Ratio Lower Upper
240 100
120 12.7 9.2 13.8
236 27.5 21.7 32.5

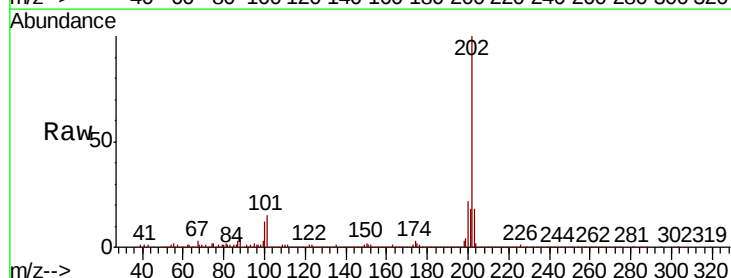


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

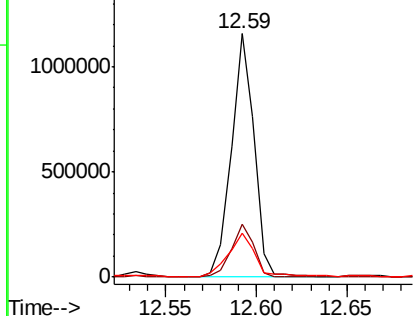
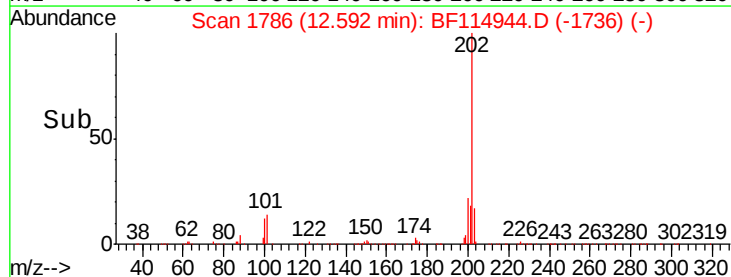


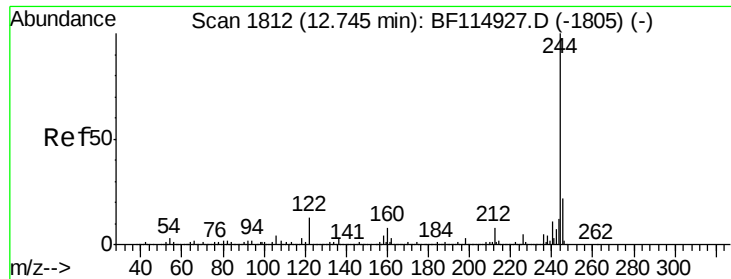
#78
Pyrene
Concen: 19.661 ng
RT: 12.59 min Scan# 1786
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Tgt Ion:202 Resp: 1004292
Ion Ratio Lower Upper
202 100
200 21.7 18.9 28.3
203 17.9 15.2 22.8



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

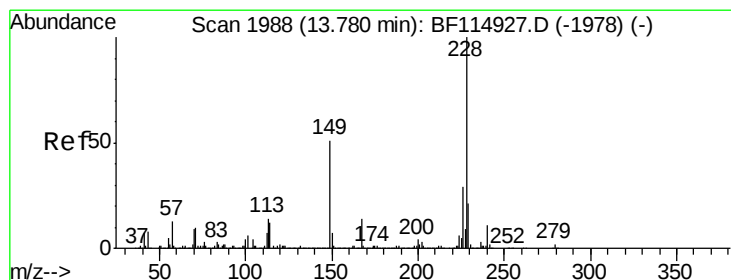
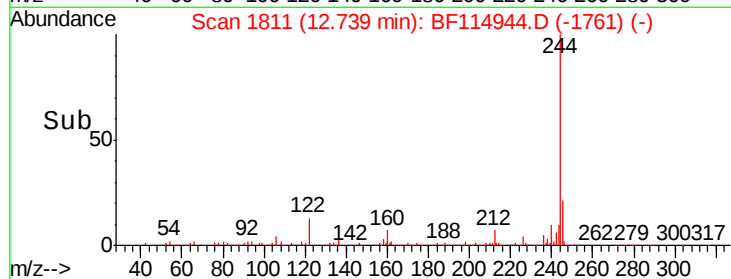
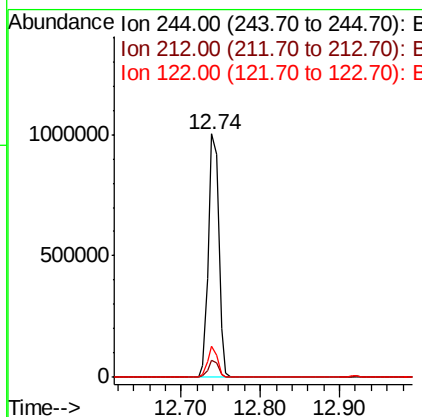
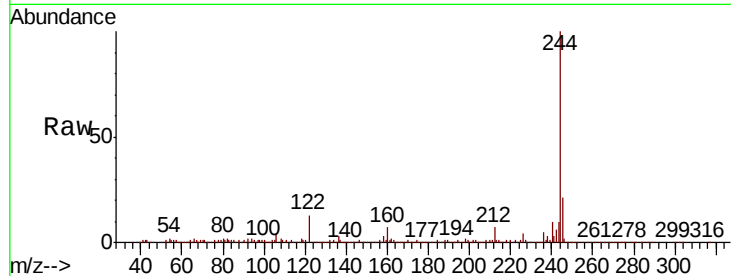




#79
 Terphenyl-d14
 Concen: 31.243 ng
 RT: 12.74 min Scan# 1811
 Delta R.T. -0.01 min
 Lab File: BF114944.D
 Acq: 11 Jun 2019 14:18

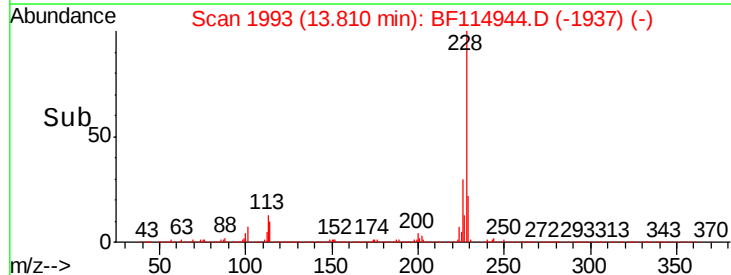
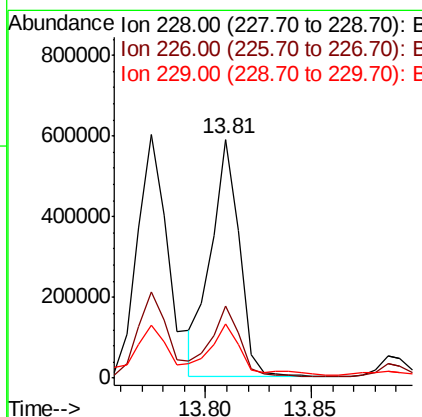
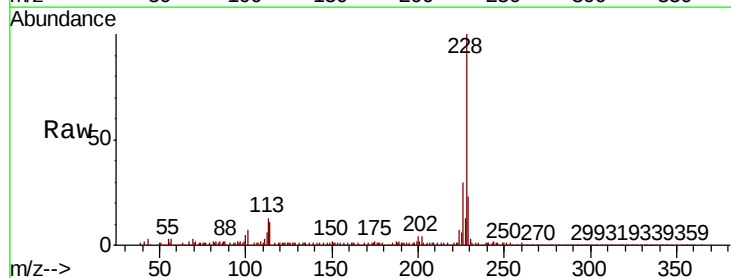
Instrument :
 BNA_F
 ClientSampleId :

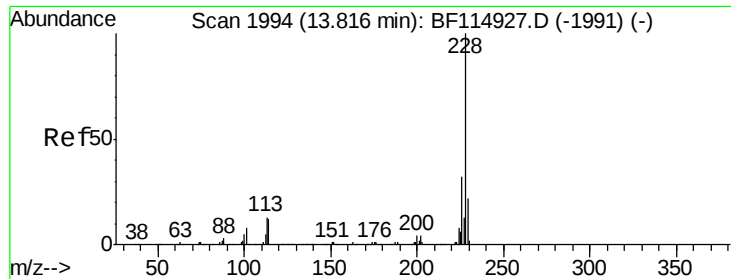
Tot Ion:244 Resp: 921422
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.2 9.2
 122 13.0 10.2 15.4



#81
 Benzo(a)anthracene
 Concen: 12.652 ng
 RT: 13.81 min Scan# 1993
 Delta R.T. 0.03 min
 Lab File: BF114944.D
 Acq: 11 Jun 2019 14:18

Tgt Ion:228 Resp: 548674
 Ion Ratio Lower Upper
 228 100
 226 30.3 22.8 34.2
 229 22.8 16.6 25.0





#83

Chrysene

Concen: 12.599 ng

RT: 13.81 min Scan# 1993

Delta R.T. -0.01 min

Lab File: BF114944.D

Acq: 11 Jun 2019 14:18

Instrument :

BNA_F

ClientSampleId :

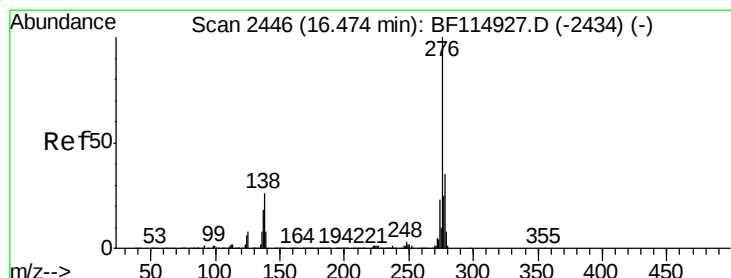
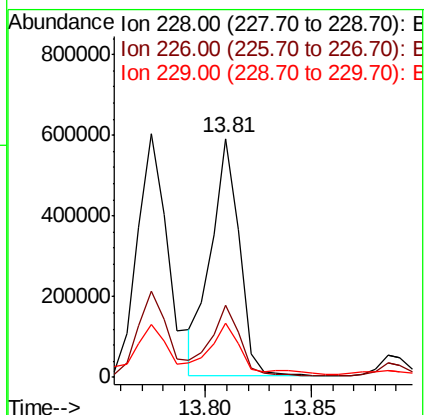
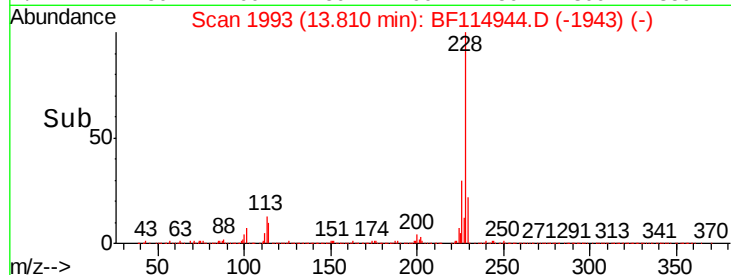
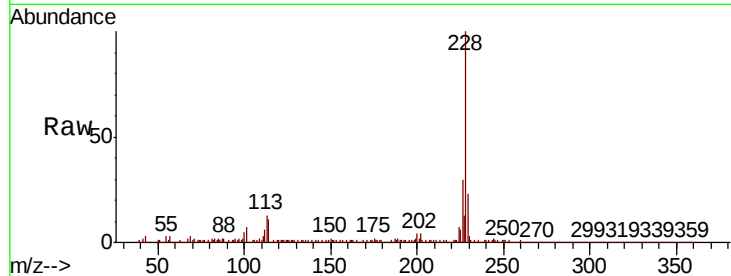
Tot Ion:228 Resp: 548674

Ion Ratio Lower Upper

228 100

226 30.3 25.8 38.8

229 22.8 17.2 25.8



#86

Indeno(1,2,3-cd)pyrene

Concen: 5.203 ng

RT: 16.47 min Scan# 2446

Delta R.T. -0.00 min

Lab File: BF114944.D

Acq: 11 Jun 2019 14:18

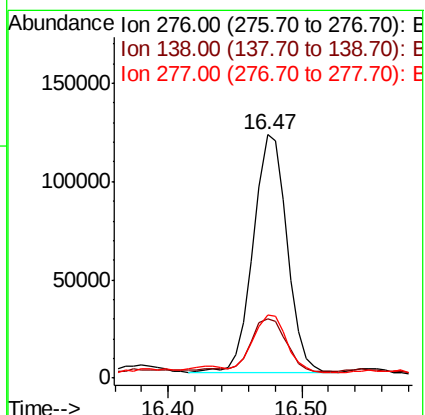
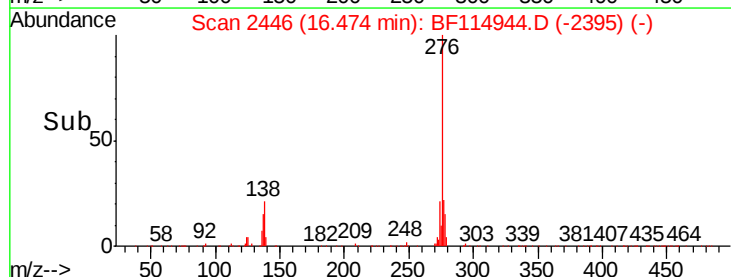
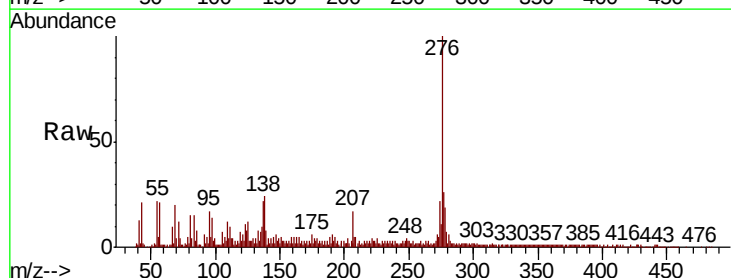
Tgt Ion:276 Resp: 213013

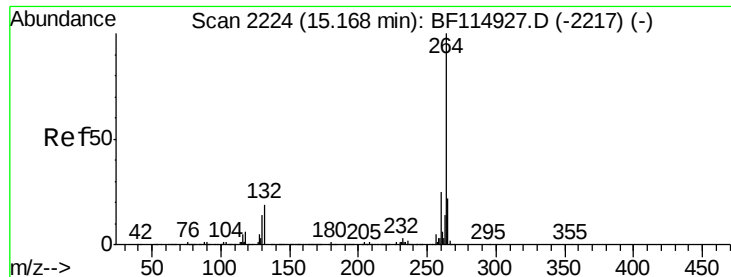
Ion Ratio Lower Upper

276 100

138 25.2 23.3 34.9

277 24.2 20.5 30.7



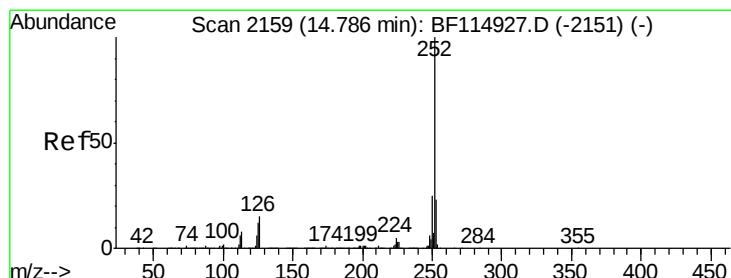
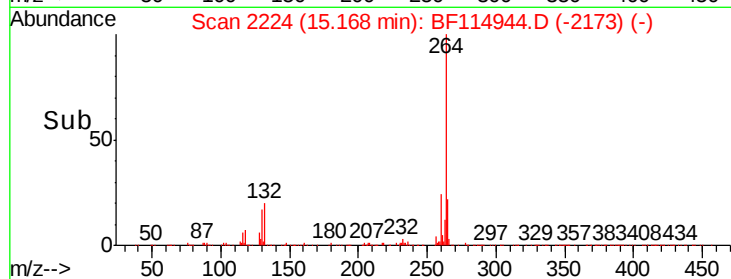
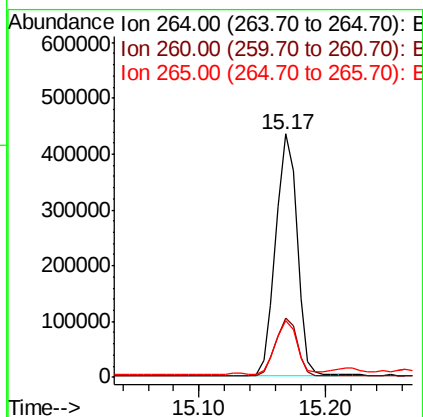
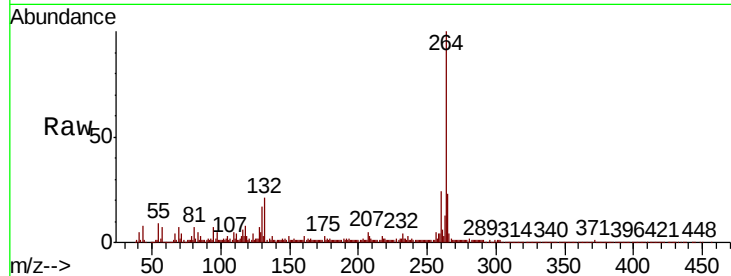


#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.17 min Scan# 2224
Delta R.T. -0.00 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 512438

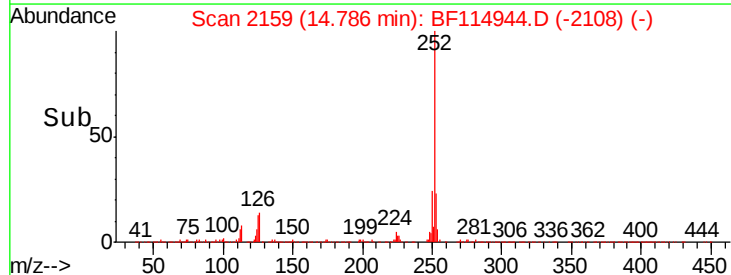
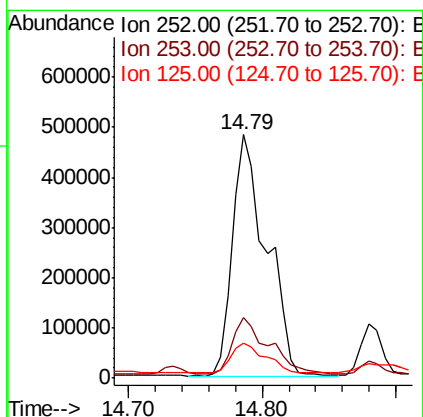
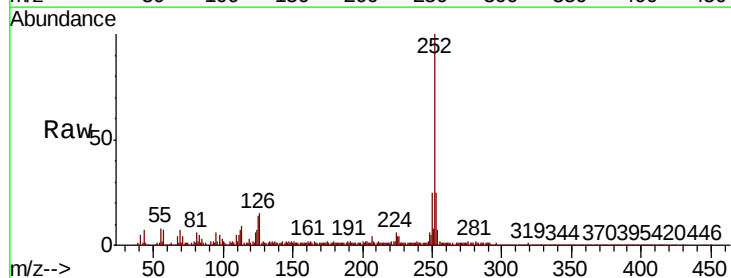
Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.7	29.5
265	23.3	17.5	26.3

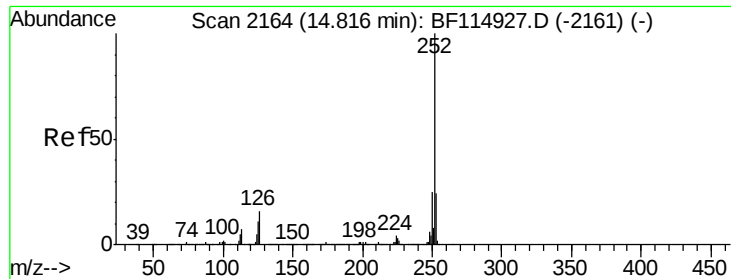


#88
Benzo(b)fluoranthene
Concen: 25.572 ng
RT: 14.79 min Scan# 2159
Delta R.T. -0.00 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Tgt Ion:252 Resp: 853129

Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.6	28.0
125	14.5	9.5	14.3

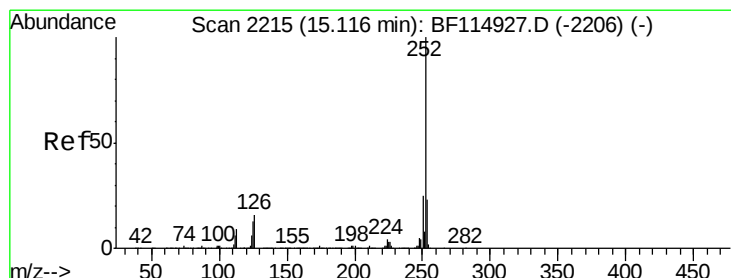
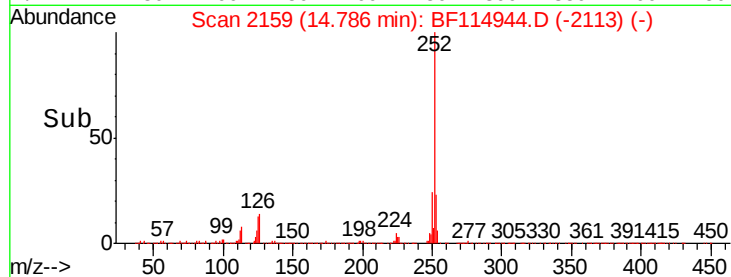
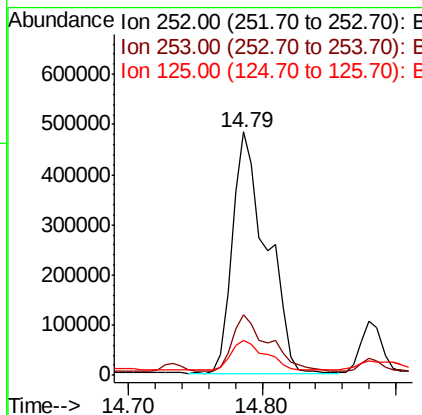
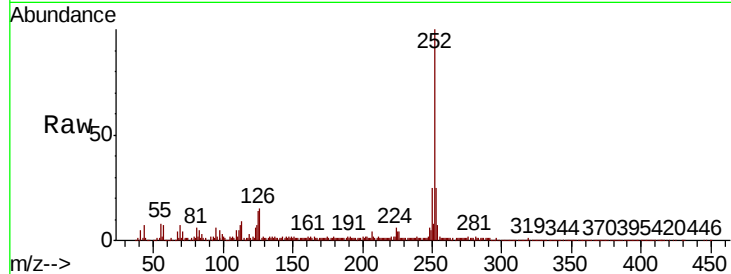




#89
Benzo(k)fluoranthene
Concen: 29.466 ng
RT: 14.79 min Scan# 2159
Delta R.T. -0.03 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

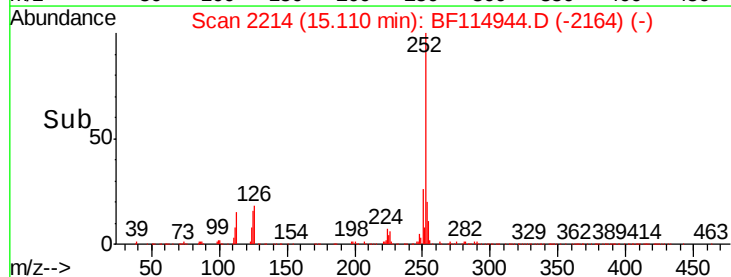
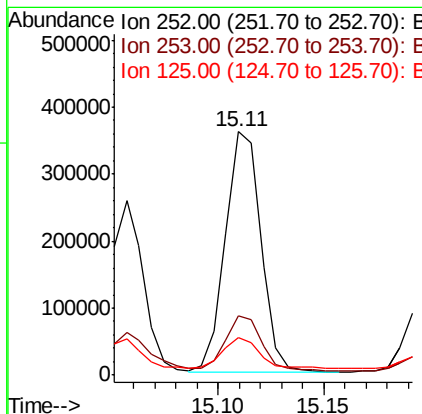
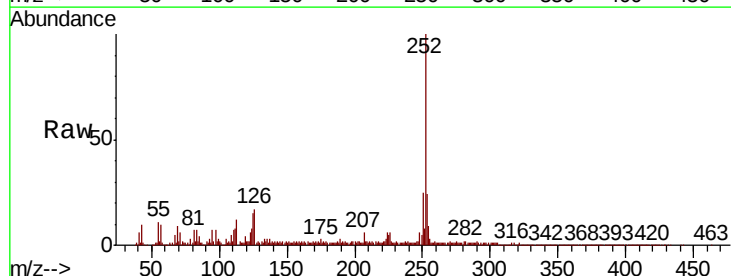
Instrument :
BNA_F
ClientSampleId :

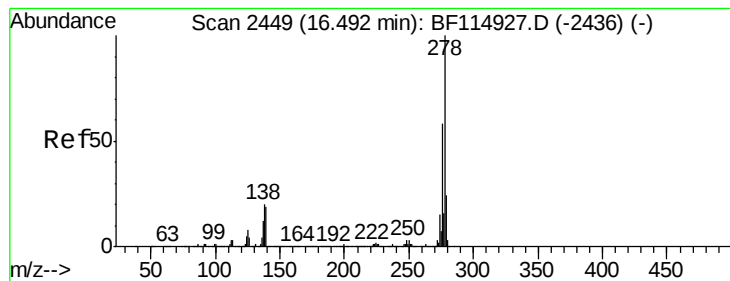
Tot Ion:252 Resp: 853129
Ion Ratio Lower Upper
252 100
253 24.7 18.6 28.0
125 14.5 9.2 13.8#



#90
Benzo(a)pyrene
Concen: 14.469 ng
RT: 15.11 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF114944.D
Acq: 11 Jun 2019 14:18

Tgt Ion:252 Resp: 419260
Ion Ratio Lower Upper
252 100
253 24.3 18.2 27.2
125 15.5 10.1 15.1#





#91

Dibenzo(a,h)anthracene

Concen: 2.382 ng

RT: 16.49 min Scan# 2448

Delta R.T. -0.01 min

Lab File: BF114944.D

Acq: 11 Jun 2019 14:18

Instrument :

BNA_F

ClientSampleId :

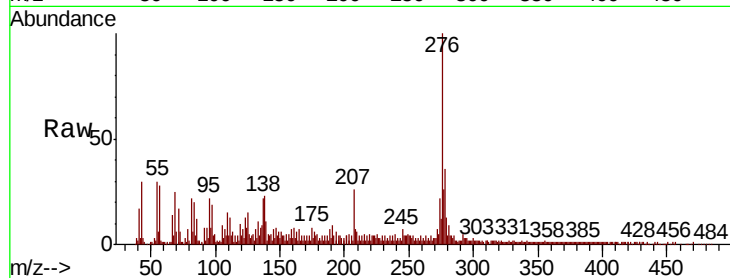
Tot Ion:278 Resp: 58294

Ion Ratio Lower Upper

278 100

139 31.7 15.1 22.7#

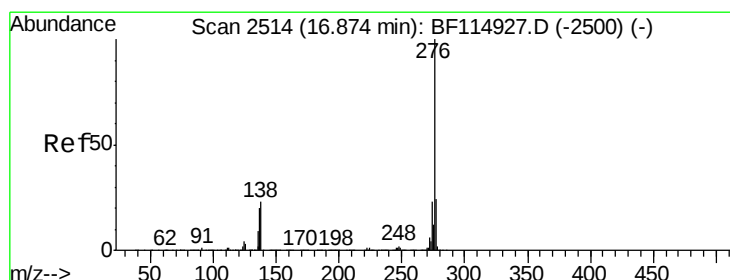
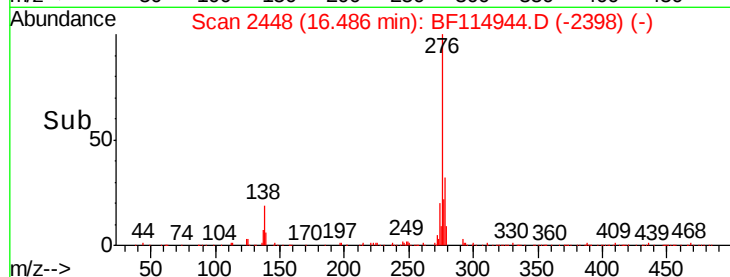
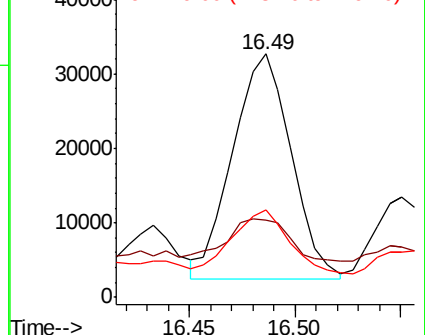
279 35.7 19.6 29.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 7.758 ng

RT: 16.87 min Scan# 2513

Delta R.T. -0.01 min

Lab File: BF114944.D

Acq: 11 Jun 2019 14:18

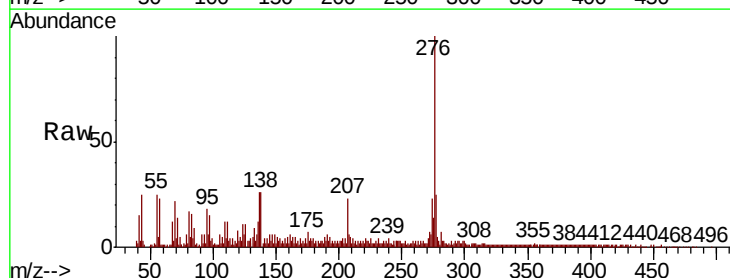
Tgt Ion:276 Resp: 189279

Ion Ratio Lower Upper

276 100

277 25.0 19.0 28.6

138 26.1 18.7 28.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

